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New Species of Sapindaceae from South America.

BY PROF. DR. L. RADLKOFER.

ALLOPHYLLUS CINNAMOMEUS.

Inter Allophyli species Americanus; foliis 3-foliolatis et inflorescentiis pluriramosis praeditas molliter pubescentes excellit, pube ramorum petiolorumque brevi cinnamomeo, foliolis breviter petiolatis, serrulatis, inflorescentiis fere a basi ramosis, floribus majoribus. (Fructus desunt.)

Legit M. Bang, Bolivia, n. 2236.

MATAYBA BOLIVIANA.

Arbor 15-pedalis; rami teretes, novelli pube adpressa gilvocinerea induti; folia abrupte pinnata, 3-4-juga (ad 18 cm. longa); foliola subopposita, oblonga (circ. 8 cm. longa, 2.5 cm. lata), obtusa, integerrima, basi inaequaliter in petiolulos breves attenuata, subcoriacea, laevigata, nervis lateralibus numerosis oblique patulis venisque supra vix, subtus paullulum tantum prominulis, utrinque livescentia, subglabrata, sparsim pellucide punctata et lineolata, ad paginem superiorem hypodermate instructa; paniculae axillares, folia subaequant, pubescentes; flores albi, disco glabro.

Affinis *Mataybae sylvaticae* (Casar) Radlk. in Sitzungsber. K. bayer. Ac. 9: 631, 1879, a qua differt forma et colore foliolorum, indumento pallido et praesertim foliolis hypodermate instructis.

In Bolivia, legit M. Bang, n. 2171.

"Grows as a shade tree on the banks of streams, in rich forest mold. But one tree seen." *Bang. coll. notes.*

SERJANIA GRANDICEPS.

Scandens, fruticosa, subglabra; rami acute 3-angulares, 3-lateri, lateribus inter angulos et costam medianam utrinque canaliculato-sulcatis, necnon angulis ipsis sulco angustiore exaratis, vix extimo apice laxepuberuli; corpus lignosum compositum e centrali majore et periphericis, parvis 6-triangulariter dispositis et per paria angulis sulcatis subjectis; folia biternata (circ. 14 cm. longa, 10 cm. lata); foliola ovalia (terminalia 8 cm. longa, 4 cm. lata, reliqua decrescunt minora), acuta, subpetiolata, supera medium remota serrato-dentata glabra, punctis pellucidis sparsis lineolisque reticulatis notata; petioli nudi; thyrsi elongati; flores magni; pedicellis (1 cm.) longis suffulti; sepala flavescenti-tomentelli (6 mm. longa); petala ex obovato in unguem longiorem attenuata (8 mm. longa, 4 mm. lata); stamina hirsuta; germen pyriforme, dense flaves-

cente-tomentosum; fructus magnus (4.5 cm. longus, medio 3.5 cm. ad loculos 1.5 cm. latus), cordato-ellipticus, loculis globosis, sat liberis, reti venarum elevato notatis, subhirsutis, endocarpio crispato-piloso (semen non suppetebat).

Affinis vindetur *Serjaniae glabratae* Kunth; floribus serjaniam nutantem in mentem revocat, sed germen densius tomentosum; insignis est ramorum structura.

In Bolivia, legit M. Bang.

PAULLINIA DASYSTACHA (sp. nov. in Paulliniae Monographia mor fusius tractanda) in Sectione XII., "Caloptilon" (capsula trialata, alis endocarpium ingressa chartaceis persistentibus sepalis 5 liberis) quodammodo affinis *P. acutangulae* Pers.:

Tomentosa; rami subteretes; corpus lignosum simplex; folia 5-foliolato-pinnata; foliola ovato-oblonga, remote obtuse dentata, raro-punctata, epidermide non macigera; stipulae elongatae, sublanceolatae; thyrsi solitarii, rhachi tomentosa; fructus obvatus, truncatus vel emarginatus, breviter et stipitatus, alis basi angustatis, tomento brevi indutus; seminis testa parve pilosa.

Forma 1, *genuina* Radlk.: Dense hirto-tomentosa.

Forma 2, *hirta* Radlk.: In omni parte brevius et laxius tomentosa.

In Bolivia et Peruvia: Forma 1: Ruiz & Pavon! (Peruvia); Bang n. 2815! (Bolivia). Forma 2: Rusby n. 531: (Bolivia, Guanii, alt. 2000 ped., Maj. 1886, fruct.; *Paullinia acutangula* non. Pers., Britton in Bull. Torr. Bot. Club, 16: 190, 1889; partim, excl. nempe coll. Rusby n. 530!, quae partim *Paullinia neglecta* Radlk. in Serg. Monogr., 1895, p. 42 et 71 n. 29, partim *Serjania Caracasana* Willd.

CUPANIA SEMIDENTATA.

Affinis *Cupaniae triquetrae* A. Rich. Fructu (potius germine aucto) subtriquetro et foliolis ad paginem superiorem hypodermate instructis, sed distincta indumento fructuum cano setoso-sericeo adpresso (nec flabescente lanoso-tomentoso) et foliolis elongate oblongis supra medium tantum crenato-dentatis, subglabris (nec ex obovata cuneatis, a basi repando-dentatis vel subintegerrimis, subrevolutis, subtus tomentellis); foliolis 7-9, alternis, brevi-petiolulatis, 10-20 cm. longis, 4-8 cm. latis; panicula longipedunculata, laxiuscula, circa 20 cm. longa, 10 cm. lata.

Collected by Rusby and Squires at Sacupana, lower Orinoco. A small tree of some 6-10 meters.